

ALPHA[®] Sn63Pb37 VACULOY[®] SOLDER ALLOY

DESCRIPTION

ALPHA Sn63Pb37 Vaculoy is manufactured using high purity raw materials and the alloy is conditioned using Alpha's Vaculoy viscosity and dross lowering treatment. This results in a pure low dross high fluidity solder alloy, which is free of cast in impurities and included oxides.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

ALPHA Sn63Pb37 Vaculoy treated prior to casting: this removes finely divided suspended oxides that are found in all virgin raw materials. This increases the fluidity and hence soldering defects.

- The remove of the finely divided oxide reduces crossing rate, the wave stays cleaner, longer.
- Has a proven track record; no need to take chances.

APPLICATION GUIDELINES

ALPHA Sn63Pb37 Vaculoy is the ideal companion product for all wave soldering systems. ALPHA Sn63Pb37 Vaculoy is ideal for the following types of applications:

- High volume wave soldering processes
- Applications requiring dual wave and chip wave systems
- Boards that are densely populated

A solder pot temperature of 240 to 250 °C is recommended. For suitable wave solder fluxes, please see our selector guide. Reclaim services, including dedicated lead-free containers, are also available. Please consult your local sales office.

TECHNICAL SPECIFICATIONS

The following indicates the alloy and impurity limits for ALPHA Sn63Pb37 Vaculoy in relation to J-STD-006C. All figures in % by weight. *For 60Sn/40Pb, Sn is 59.5 to 60.5%.

Element	Vaculoy	J-STD-006C
Sn	*62.5 to 63.5	62.5 to 63.5
Pb	Balance	Balance
Sb	0.20 max	0.20 max
Cu	0.08 max	0.08 max
Zn	0.003 max	0.003 max
Fe	0.02 max	0.02 max
As	0.03 max	0.03 max
Ni	0.01 max	0.01 max
Bi	0.10 max	0.10 max
Cd	0.002 max	0.002 max
Ag	0.10 max	0.10 max
Al	0.005 max	0.005 max
In	0.10 max	0.10 max
Au	0.05 max	0.05 max

AVAILABILITY

ALPHA Sn63Pb37 Vaculoy is available in 3.5 kg feeder bars, 1 kg bars, solid wire, and solder chunks for first fill of solder baths. Vaculoy is also available in other SnPb solder alloys such as 60Sn40Pb.

RECYCLING SERVICES

We provide safe and efficient recycling services to help companies meet their environmental and legislative requirements and at the same time, maximize the value of their waste streams. Our service collects solder dross, solder scrap, and various forms of solder paste waste. Please contact your local sales representative for recycling capabilities in your area or [link here](#).



SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at MacDermidAlpha.com/assembly-solutions/knowledge-base.**

CONTACT INFORMATION

To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

www.macdermidalpha.com

<p>North America 109 Corporate Blvd. South Plainfield, NJ 07080, USA 1.800.367.5460</p>	<p>Europe Unit 2, Genesis Business Park Albert Drive Woking, Surrey, GU21 5RW, UK 44.01483.758400</p>	<p>Asia 8/F., Paul Y. Centre 51 Hung To Road Kwun Tong, Kowloon, Hong Kong 852.3190.3100</p>
--	--	---

Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

DISCLAIMER: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No statement or recommendation shall constitute a representation unless set forth in an agreement signed by officers of seller and manufacturer. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY IS MADE. The following warranty is made in lieu of such warranties and all other warranties, express, implied, or statutory. Products are warranted to be free from defects in material and workmanship at the time sold. The sole obligation of seller and manufacturer under this warranty shall be to replace any noncompliant product at the time sold. Under no circumstances shall manufacturer or seller be liable for any loss, damage or expense, direct, indirect, incidental or consequential, arising out of the inability to use the product. Notwithstanding the foregoing, if products are supplied in response to a customer request that specifies operating parameters beyond those stated above, or if products are used under conditions exceeding said parameters, the customer by acceptance or use thereof assumes all risk of product failure and of all direct, indirect, incidental and consequential damages that may result from use of the products under such conditions, and agrees to exonerate, indemnify, defend and hold harmless MacDermid, Incorporated and its affiliates therefrom. No suggestion for product use nor anything contained herein shall be construed as a recommendation to use any product in a manner that infringes any patent or other intellectual property rights, and seller and manufacturer assume no responsibility or liability for any such infringement.

© 2019 MacDermid, Inc. and its group of companies. All rights reserved. "(R)" and "TM" are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.